

1 **SECTION 9-12, MASONRY UNITS**

2 **March 3, 1997**

3 **9-12.4 Precast Concrete Manholes**

4 This section is revised to read:

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6 Precast concrete manholes shall meet the requirements of AASHTO M 199.

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8 The joints may be the tongue and groove type or the shiplap type, sufficiently
9 deep to prevent lateral displacement.

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11 As an alternate to steel reinforcement, 48-inch diameter by 3-foot high eccentric
12 or concentric cone sections may be reinforced with synthetic fiber. The synthetic
13 fiber shall meet the requirements of ASTM C 116 Type III. The synthetic fiber
14 shall be added at a rate of 0.75 pounds per cubic yard of concrete and shall be
15 thoroughly mixed with the concrete before placement in the forms. The synthetic
16 fibers shall be a minimum of 0.75 inches and a maximum of 2 inches in length. A
17 minimum of two hoops of W2 wire shall be placed in the 48-inch end of each
18 cone. No steel is required in the remainder of the cone. Precast concrete units
19 shall be furnished with knockouts or cutouts.

20

21 **9-12.5 Precast Concrete Catch Basins**

22 This section is supplemented with the following:

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24 Knockouts or cutouts may be placed on all four sides and may be round or D
25 shaped.

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27 Section 9-12 is supplemented with the following new section:

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29 **9-12.7 Precast Concrete Drywells**

30 Precast concrete drywells shall meet the requirements of Section 9-12.4.
31 Seepage port size and shape may vary per manufacturer. Each seepage port
32 shall provide a minimum of 1 square inch and a maximum of 7 square inches for
33 round openings and 13 square inches for rectangular openings. The ports shall
34 be uniformly spaced with at least one port per 8 inches of drywell height and 15
35 inches of drywell circumference.